

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for ASTRAGALIN**

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Ginkgo biloba</i>	Leaf		18000.0	1.0	--
<i>Maclura pomifera</i>	Fruit		3200.0		--
<i>Viburnum opulus</i>	Flower		900.0		--
<i>Nigella sativa</i>	Seed		200.0	0.9999999999999999	--
<i>Agrimonia eupatoria</i>	Shoot	22.5	23.6		--
<i>Urtica dioica</i>	Plant		20.0		--
<i>Glycyrrhiza uralensis</i>	Leaf		16.0	-1.0	--
<i>Psoralea corylifolia</i>	Seed		2.1	-1.0	--
<i>Humulus lupulus</i>	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Sambucus nigra</i>	Plant				--
<i>Centella asiatica</i>	Leaf				Jim Duke's personal files.
<i>Paeonia lactiflora</i>	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Solidago gigantea</i>	Flower				--
<i>Sarracenia rubra</i>	Leaf				--
<i>Sarracenia leucophylla</i>	Leaf				--
<i>Eupatorium perfoliatum</i>	Plant				--
<i>Sarracenia psittacina</i>	Leaf				--
<i>Corylus avellana</i>	Leaf				--
<i>Cichorium intybus</i>	Leaf				--
<i>Cichorium intybus</i>	Plant				--
<i>Sarracenia purpurea</i>	Leaf				--
<i>Centaurea calcitrapa</i>	Plant				--
<i>Crocus sativus</i>	Flower				--
<i>Rhus typhina</i>	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Sarracenia rubra</i>	Leaf				--
<i>Phyllanthus emblica</i>	Leaf				--
<i>Cnicus benedictus</i>	Shoot				Jim Duke's personal files.
<i>Equisetum arvense</i>	Shoot				Jim Duke's personal files.
<i>Vitis vinifera</i>	Leaf				--
<i>Equisetum arvense</i>	Leaf				Jim Duke's personal files.
<i>Podophyllum hexandrum</i>	Rhizome				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Podophyllum pleianthum</i>	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosa multiflora</i>	Flower				--
<i>Piper nigrum</i>	Fruit				--
<i>Dianthus barbatus</i>	Shoot				--
<i>Adiantum capillus-veneris</i>	Leaf				--
<i>Ficus carica</i>	Fruit				--
<i>Daucus carota</i>	Seed				--
<i>Hamamelis virginiana</i>	Leaf				--
<i>Phytolacca americana</i>	Leaf				--
<i>Vaccinium myrtillus</i>	Fruit				--
<i>Vaccinium myrtillus</i>	Leaf				--
<i>Cyamopsis tetragonoloba</i>	Seed				Kaushal, G. P., Bhatia, I. S. 1982. A Study of Polyphenols in the Seeds and Leaves of Guar ( <i>Cyamopsis tetragonoloba</i> L. Taub). <i>J Sci Food Agr</i> , 33: 461-470.
<i>Cyamopsis tetragonoloba</i>	Leaf				Kaushal, G. P., Bhatia, I. S. 1982. A Study of Polyphenols in the Seeds and Leaves of Guar ( <i>Cyamopsis tetragonoloba</i> L. Taub). <i>J Sci Food Agr</i> , 33: 461-470.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Brassica nigra</i>	Leaf				--
<i>Urtica dioica</i>	Inflorescence				Jim Duke's personal files.
<i>Glycine max</i>	Leaf				--
<i>Tribulus terrestris</i>	Plant				--
<i>Petasites hybridus</i>	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Morus alba</i>	Leaf				--
<i>Artemisia annua</i>	Shoot				Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M. (Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands .
<i>Glycyrrhiza glabra</i>	Shoot				--
<i>Zea mays</i>	Pollen Or Spore				--
<i>Ribes nigrum</i>	Leaf				--
<i>Ribes nigrum</i>	Fruit Juice				--
<i>Spinacia oleracea</i>	Shoot				--
<i>Carum carvi</i>	Seed				--
<i>Glycine max</i>	Shoot				--
<i>Podophyllum peltatum</i>	Plant				--
<i>Althaea officinalis</i>	Leaf				--
<i>Sambucus nigra</i>	Flower				--
<i>Althaea officinalis</i>	Flower				--
<i>Aesculus hippocastanum</i>	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Syzygium aromaticum</i>	Fruit				--
<i>Camellia sinensis</i>	Leaf				--

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<i>Tilia</i> sp.	Flower				--
<i>Sarracenia rubra</i>	Leaf				--
<i>Phyllanthus niruri</i>	Plant				Tramil
<i>Nicotiana tabacum</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Arnica montana</i>	Flower				--
<i>Melia azedarach</i>	Flower				--
<i>Sarracenia alata</i>	Leaf				--
<i>Salix alba</i>	Pollen Or Spore				--
<i>Solidago virgaurea</i>	Leaf				--
<i>Ammi visnaga</i>	Flower				--
<i>Sarracenia flava</i>	Leaf				--
<i>Ammi visnaga</i>	Leaf				--
<i>Laurus nobilis</i>	Leaf				--